PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 175 (Annapolis Rd) and MD 170 (Telegraph Rd) in Anne Arundel County. MD 175 (Annapolis) is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 175 (Annapolis Rd) approaches running concurrently. New Exclusive left turn phases shall be provided for both approaches of MD 175 (Annapolis Rd). MD 170 (Telegraph Rd) approaches shall also continue to run concurrently.

2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.

3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENTLIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
	Sheet aluminum signs to consist of: (span wire mount)	10 SF
	R10-10L "LEFT TURN SIGNAL" sign, (24" x 30").	2 EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY	
1001	Maintenance of traffic per assignment.	1	EA
8011	Furnish and install 12" vehicular traffic signal head section (black faced).	21	EA
8048	Remove and dispose of existing material and equipment per assignment.	1	EA
8068	Furnish and install 1" liquid tight flexible non-metallic conduit for detector sleeve.	10	L.F.
8075	Install overhead sign.	10	S.F.
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	730	L.F.
8087	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	450	L.F.
8088	Furnish and install saw cut for signal (loop detector).	120	L.F.

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

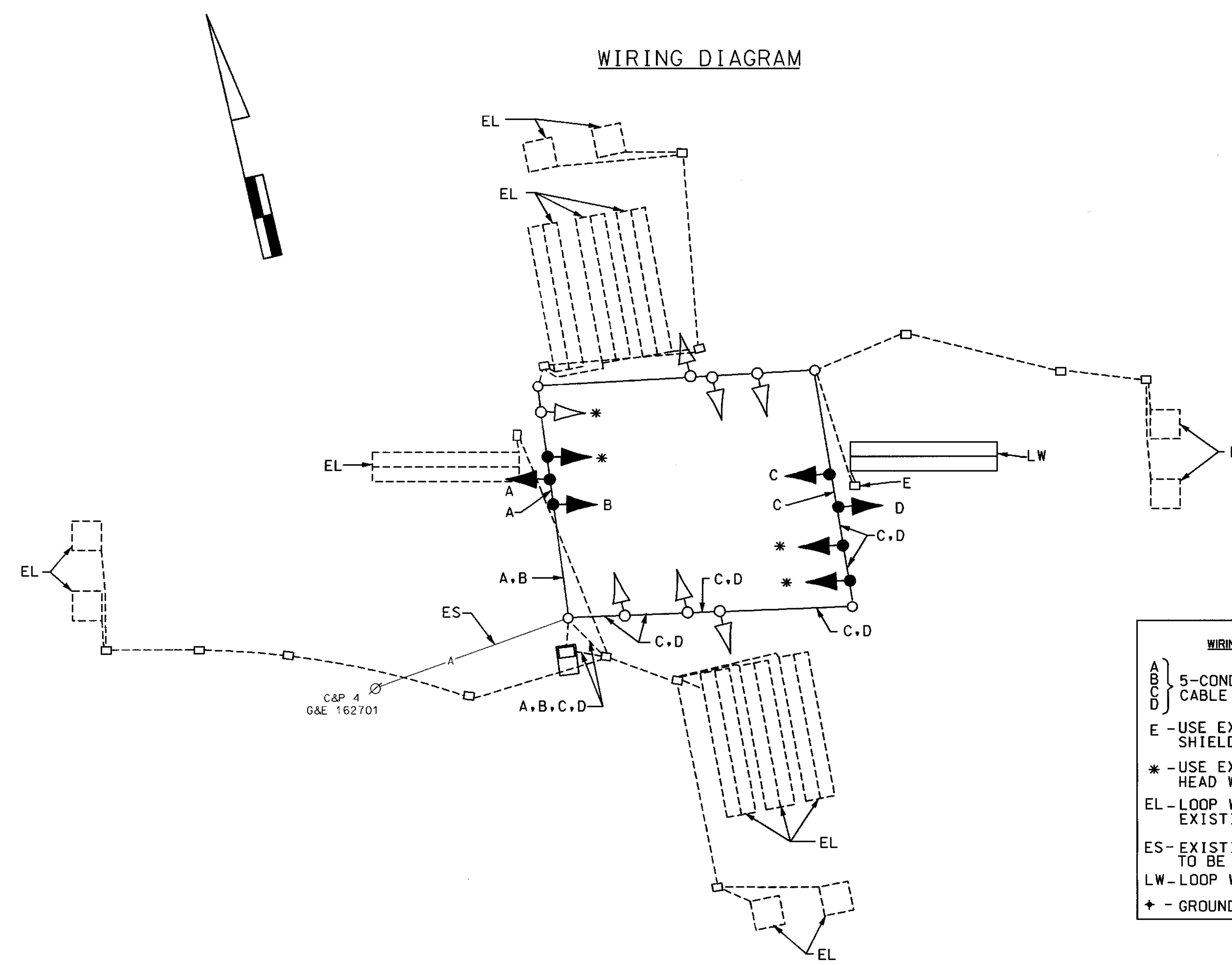
Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	◄R ◄Y ◄G	◄R ◄Y ◄G	R Y G	R Y G	◄R ◄Y ◄G	◄R ◄Y ◄G	R Y G	R Y G	R Y G ◄G	R Y G ◄G	R Y G	R Y G ◄G	R Y G ◄G	R Y G
PHASE 1 & 5	◄G	◄G	R	R	◄G	◄G	R	R	R	R	R	R	R	R
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6														
PHASE 1 & 6	◄G	◄G	G	G	◄R	◄R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	◄Y	◄Y	G	G	◄R	◄R	R	R	R	R	R	R	R	R
PHASE 2 & 5	◄R	◄R	R	R	◄G	◄G	G	G	R	R	R	R	R	R
2 & 5 CHANGE	◄R	◄R	R	R	◄Y	◄Y	G	G	R	R	R	R	R	R
PHASE 2 & 6	◄R	◄R	G	G	◄R	◄R	G	G	R	R	R	R	R	R
2 & 6 CHANGE	◄R	◄R	Y	Y	◄R	◄R	Y	Y	R	R	R	R	R	R
PHASE 3	◄R	◄R	R	R	◄R	◄R	R	R	R	R	R	G / ◄G	G / ◄G	G
3 CHANGE	◄R	◄R	R	R	◄R	◄R	R	R	R	R	R	Y	Y	Y
PHASE 4	◄R	◄R	R	R	◄R	◄R	R	R	G / ◄G	G / ◄G	G	R	R	R
4 CHANGE ALT	◄R	◄R	R	R	◄R	◄R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

- A, B, C, D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)
- E - USE EXISTING 2C ALUMINIUM SHIELDED CABLE
- * - USE EXISTING SIGNAL HEAD WIRING
- EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES - EXISTING OVERHEAD SERVICE TO BE MAINBTAINED BY C&P
- LW - LOOP WIRE (NO. 14 A.W.G.)
- ✦ - GROUND ROD

SHA#: AA287A5M/B5M TOD #: XX106054-56

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637
4659GI.dgn WT-49

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 175 @ MD 170
ODENTON, MARYLAND

DRAWN BY:	R CICCHINI	F.A.P. NO.		TS NO. 751 C	SHEET NO. 2 OF 2
CHECKED BY:	J ALLEN	S.H.A. NO.	XX1065485		
SCALE:	NONE	COUNTY:	Anne Arundel	T.I.M.S. NO. G439	
DATE:	7-28-04	LOG MILE:	02017000.22		